Amendments to and Listing of the Claims:

1. to 43. [Cancelled]

44. (Currently amended) A synthetic neuronal tissue derived from a brain or spinal cord tissue of a mammal, the synthetic neuronal tissue comprising consisting essentially of:

partially-differentiated neuronal progenitor cells that maintain their capacity to perform mitosis and are capable of differentiating into substantially only dopaminergic neurons upon contact of the synthetic neuronal tissue with a differentiation-promoting factor selected from the group consisting of glial cell line-derived neurotrophic factor, leukemia inhibitory factor, interleukin-1, interleukin-2, interleukin-3, interleukin-4, interleukin-5, interleukin-6, interleukin-7, interleukin-8, interleukin-10, interleukin-11, interleukin-12, interleukin-13, interleukin-14, interleukin-15, interleukin-16, and thyroid hormone,

wherein the <u>synthetic neuronal</u> tissue does not comprise <u>cells that give rise to</u> sufficient glial cells to provoke an immune response upon implantation of the <u>synthetic neuronal</u> tissue into a recipient.

- 45. (Currently amended) The synthetic neuronal tissue of claim 44, wherein more than 90% of cells in the synthetic neuronal tissue are the progenitor cells.
- 46. (Currently amended) The synthetic neuronal tissue of claim 45, wherein more than 95% of cells in the synthetic neuronal tissue are the progenitor cells.
- 47. (Currently amended) The synthetic neuronal tissue of claim 44, wherein the mammal is a human.
- 48. (Currently amended) The synthetic neuronal tissue of claim 47, wherein the human is an adult.

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